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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-09-26-69** **Date: 13-07-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Repair Works to Existing Help Point Building and Additional Works at Hegadenagara in Ward No 06 Byatarayanapura Sub Division.
Agency	:	Sri. A. Puttaraju, No 48/5, Puttanilaya, Pipeline B Cross, Bahubalinagara, Jalahalli, Bangalore-560 013
Customer's Reference	:	BBMP/EE/BTP/WO/51/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	11-07-19
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.08	-
2	Finess by Air permeablity method (m^2/kg,Min)	298.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	-
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

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R KARTHIK RECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-09-26-69**	**Date: 08-08-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Repair Works to Existing Help Point Building and Additional Works at Hegadenagara in Ward No 06 Byatarayanapura Sub Division.	
Agency	:	Sri. A. Puttaraju, No 48/5, Puttanilaya, Pipeline B Cross, Bahubalinagara, Jalahalli, Bangalore-560 013.	
Customer's Reference	:	BBMP/EE/BTP/WO/51/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-07-19	
Sample Type	:	Birla Super 53grade	
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6	
Date of test	:	11-07-19	
Environmental Conditions during test	:	Temperature: Humidity:	26°C 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-26-69** **Date: 13-07-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair Works to Existing Help Point Building and Additional Works at Hegadenagara in Ward No 06 Byatarayanapura Sub Division.
Agency	:	Sri. A. Puttaraju, No 48/5, Puttanilaya, Pipeline B Cross, Bahubalinagara, Jalahalli, Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/51/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	188	188	1.3	98.7	90-100
3	20 mm	7285	7473	49.8	50.2	30-70
4	10 mm	4090	11563	77.1	22.9	10-35
5	4.75 mm	3001	14564	97.1	2.9	0-5
6	Pan	436	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-26-69** **Date: 13-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.8	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.22	–

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-26-69** **Date: 12-07-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair Works to Existing Help Point Building and Additional Works at Hegadenagara in Ward No 06 Byatarayanapura Sub Division.
Agency	:	Sri. A. Puttaraju, No 48/5, Puttanilaya, Pipeline B Cross, Bahubalinagara, Jalahalli, Bangalore-560 013.
Customer Reference	:	BBMP/EE/BTP/WO/51/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	199	199	4.0	96.0	90-100
3	10 mm	3053	3252	65.0	35.0	25-55
4	4.75 mm	1499	4751	95.0	5.0	0-10
5	Pan	249	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-26-69** **Date: 12-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.7	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.27	–
7	Aggregate crushing Value(%)	23.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-09-26-69** **Date: 12-07-19**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Repair Works to Existing Help Point Building and Additional Works at Hegadenagara in Ward No 06 Byatarayanapura Sub Division.

Agency : Sri. A. Puttaraju, No 48/5, Puttanilaya, Pipeline B Cross, Bahubalinagara, Jalahalli, Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/51/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 10-07-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-09-26-69** **Date: 12-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 23-07-19

Lab ID	:	**CP-2019-09-26-69**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair Works to Existing Help Point Building and Additional Works at Hegadenagara in Ward No 06 Byatarayanapura Sub Division.
Agency	:	Sri. A. Puttaraju, No 48/5, Puttanilaya, Pipeline B Cross, Bahubalinagara, Jalahalli, Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/51/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-07-19
Sample Type /Size	:	Precast Cover Slab(200 mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	19/07/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	175.51	200.48	2.916	24189	180.9	7.5	7.0	8.7
2	Cover Slab-2	175.49	200.52	2.822	24183	182.3	7.5	7.0	8.8
3	Cover Slab-3	175.50	200.51	2.718	24186	181.5	7.5	7.0	8.7

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/07/2019

Lab ID	:	**CP-2019-09-26-69**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair Works to Existing Help Point Building and Additional Works at Hegadenagara in Ward No 06 Byatarayanapura Sub Division.
Agency	:	Sri. A. Puttaraju, No 48/5, Puttanilaya, Pipeline B Cross, Bahubalinagara, Jalahalli, Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/51/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	16/07/2019	23/07/2019	149.01 X 149.80 X 150.80	22322	**8.544**	410.2	18.4	18.4
2	RCC	M20	16/07/2019	23/07/2019	151.24 X 149.33 X 151.30	22585	**8.327**	407.9	18.1	
3	RCC	M20	16/07/2019	23/07/2019	151.34 X 150.14 X 149.24	22722	**8.106**	424.1	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-26-69 **Date: 13/08/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Repair Works to Existing Help Point Building and Additional Works at Hegadenagara in Ward No 06 Byatarayanapura Sub Division.

Agency : Sri. A. Puttaraju. No 48/5, Puttanilaya, Pipeline B Cross, Bahubalinagara, Jalahalli, Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/51/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-07-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	16/07/2019	13/08/2019	151.67 X 149.52 X 150.89	22677	8.681	523.5	23.1	23.1
2	RCC	M20	16/07/2019	13/08/2019	150.12 X 150.08 X 151.70	22531	8.986	518.1	23.0	
3	RCC	M20	16/07/2019	13/08/2019	150.11 X 150.75 X 150.15	22628	8.541	525.3	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-09-26-69** **Date: 23/07/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair Works to Existing Help Point Building and Additional Works at Hegadenagara in Ward No 06 Byatarayanapura Sub Division.
Agency	:	Sri. A. Puttaraju, No 48/5, Puttanilaya, Pipeline B Cross, Bahubalinagara, Jalahalli, Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/51/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	16/07/2019	23/07/2019	150.23 X 150.76 X 149.80	22649	8.544	414.4	18.3	18.5
2	RCC	M20	16/07/2019	23/07/2019	151.84 X 151.64 X 149.75	23025	8.327	433.1	18.8	
3	RCC	M20	16/07/2019	23/07/2019	150.25 X 150.41 X 151.77	22600	8.106	416.7	18.4	

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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TR/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-26-69 **Date: 13/08/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Repair Works to Existing Help Point Building and Additional Works at Hegadenagara in Ward No 06 Byatarayanapura Sub Division.

Agency : Sri. A. Puttaraju, No 48/5, Puttanilaya, Pipeline B Cross, Bahubalinagara, Jalahalli, Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/51/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-07-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	16/07/2019	13/08/2019	150.56 X 150.88 X 151.04	22716	8.681	541.9	23.9	23.2
2	RCC	M20	16/07/2019	13/08/2019	149.01 X 151.07 X 151.74	22511	8.986	507.6	22.5	
3	RCC	M20	16/07/2019	13/08/2019	149.44 X 150.79 X 149.89	22534	8.541	519.6	23.1	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate.

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CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/07/2019

Lab ID	:	CP-2019-09-26-69
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair Works to Existing Help Point Building and Additional Works at Hegadenagara in Ward No 06 Byatarayanapura Sub Division.
Agency	:	Sri. A. Puttaraju, No 48/5, Puttanilaya, Pipeline B Cross, Bahubalinagara, Jalahalli, Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/51/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	16/07/2019	23/07/2019	150.66 X 149.36 X 152.00	22501	8.544	407.7	18.1	18.3
2	RCC	M20	16/07/2019	23/07/2019	149.89 X 151.04 X 151.94	22639	8.327	408.2	18.0	
3	RCC	M20	16/07/2019	23/07/2019	150.81 X 151.76 X 151.04	22886	8.106	428.1	18.7	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/08/2019

Lab ID	:	CP-2019-09-26-69
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair Works to Existing Help Point Building and Additional Works at Hegadenagara in Ward No 06 Byatarayanapura Sub Division.
Agency	:	Sri. A. Puttaraju, No 48/5, Puttanilaya, Pipeline B Cross, Bahubalinagara, Jalahalli, Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/51/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	16/07/2019	13/08/2019	150.38 X 151.44 X 151.20	22773	8.681	541.3	23.8	23.4
2	RCC	M20	16/07/2019	13/08/2019	151.55 X 149.23 X 150.05	22616	8.986	515.7	22.8	
3	RCC	M20	16/07/2019	13/08/2019	151.86 X 151.41 X 149.65	22993	8.541	543.4	23.6	

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